

## **AUTOMATIC SUB DOMAIN DELEGATION OF PRIVATE NAME SPACES FOR HOME-TO-HOME VIRTUAL PRIVATE NETWORKS**

### **ABSTRACT OF THE DISCLOSURE**

5           Methods, systems, and gateways are disclosed for attaching a private name space of a home network to a private name space of another home network. A name and an IP address of a remote home network are received via a virtual private network (VPN) tunnel coupling the remote home network and a local home network. The configuration of a DNS server of the local home  
10 network is updated to delegate the one or more names of the remote network to a remote gateway of the remote home network. A name and an IP address of the local home network are transmitted via the VPN tunnel to the remote home network. Methods, systems, and gateways are also disclosed for resolving a name request in a private name space of a home network with which a private  
15 name space of another home network is attached.